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Name of the Bundle	Proficient Bundle V1	Subject	Aptitude
Торіс	Mathematical Operations	Last updated on	19 October 2024

1. If + means ' \div ' - means ' +, × means '- " and \div means '× ',then what will be the value of the following expression : 18 \div 6–27+3×12.

- a. 102
- b. 95
- c. 105
- d. 85

Ans: c. 105 Explanation:

- After changing the signs of the equation \Rightarrow 18×6+27÷3-12.
- By using the BODMAS rule to solve the equation,

⇒ 108+9-12
 ⇒ 117-12
 ⇒ 105

Therefore, the answer will be 105.



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2. What will come in the place of '?' in the following equation, if:

a. 69
b. 73
c. 77
d. 55

Ans: c. 77 Explanation:

- After changing the signs of the equation $\Rightarrow 120 \div 6 31 + 8 \times 11$.
- By using the BODMAS rule to solve the equation,

 $\Rightarrow 120 \div 6 - 31 + 8 \times 11$ $\Rightarrow 20 - 31 + 8 \times 11$ $\Rightarrow 20 - 31 + 88$ $\Rightarrow 77$

Therefore, the answer will be 77.



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3.If A stands for '-', B stands for '+', C stands for '×' and D stands for ' \div ', then what is the value of 21A3C6(75D15C2B8)A4 ?

- a. 345
- b. -307 c. 125
- d. -125

Ans: b. -307

Explanation:

- After substituting the signs in the equation \Rightarrow 21-3x6(75÷15 x 2+8)-4.
- By using the BODMAS rule to solve the equation,

 $\Rightarrow 21-3x6(75\div15 \times 2+8)-4$ $\Rightarrow 21-18x18-4$ $\Rightarrow -307$

Therefore, the answer will be -307.

4.If A stands for '-', B stands for '+', C stands for '×' and D stands for '÷', then what is the value of [16D(2B6)]A(34D17)C3?

a. 15b. 8c. -4d. 22

Ans: c.-4 Explanation:

- After substituting the signs in the equation \Rightarrow [16÷ (2+6)] (34÷17)x3.
- By using the BODMAS rule to solve the equation,

 $\Rightarrow [16 \div (2+6)] - (34 \div 17) x3$ $\Rightarrow 2 - 2 x 3$ $\Rightarrow -4$

Therefore, the answer will be -4.



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5. If '+' means '+', '-' means '+', '×' means '-' and '÷' means '×', what will be the value of the following expression: [{(14×6) - ($4 \div 3$)} + (6 - 4)] $\div 3$.

- a. 3
- b. 6
- c. 1
- d. 9

Ans: b.6 Explanation:

- After changing the signs of the equation⇒[{(14 6) + (4 x 3)} ÷ (6 + 4)] ÷
 3.
- By using the BODMAS rule to solve the equation,

$$\Rightarrow [\{(14-6)+(4 \times 3)\} \div (6+4)] \div 3$$

$$\Rightarrow (8+12) \div 10 \times 3$$

$$\Rightarrow 6$$

Therefore, the answer will be 6.

6. If A denotes '+', B denotes '×', C denotes '-', and D denotes ' \div ', then what will come in place of '?' in the following equation? 56 D 8 B 7 = ? B 7

a. 9 b. 7 c. 8 d. 12

Ans: b.7 Explanation:

• After substituting the signs in the equation, \Rightarrow 56 ÷ 8 x 7 = ? x 7

7

• By using the BODMAS rule to solve the equation,

$$\Rightarrow 56 \div 8 \times 7 = ? \times$$
$$\Rightarrow 7 \times 7 = ? \times 7$$
$$\Rightarrow ? = 7$$

Therefore, the answer will be 7.

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7. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation: 135 * 15 * 3 * 2 * 13 *16.

- a. ×, +, =, ÷, -
- b. +, ÷, -, =, ×
- c. ÷, ×, +, −, =
- d. =, ×, +, ÷, -

Ans: b. +, ÷, -, =, ×

Explanation: Option-1 \Rightarrow Using combination ×, +, =, \div , -.

- After substituting the signs in the equation, \Rightarrow 135 × 15 + 3 = 2 ÷ 13 16
- By using the BODMAS rule to solve the equation,

$$\Rightarrow$$
135 × 15 + 3 = 0.153 − 16
 \Rightarrow 2025 + 3 = 0.153 − 16
 \Rightarrow 2028 = -15.847 (LHS ≠ RHS)

Option-2 \Rightarrow Using combination =, ×, +, \div , -.

- After substituting the signs in the equation, $\Rightarrow 135 = 15 \times 3 + 2 \div 13 16$
- By using the BODMAS rule to solve the equation,

$$\Rightarrow$$
135 = 15 × 3 + 0.153 − 16
 \Rightarrow 135 = 45 + 0.153 − 16
 \Rightarrow 135 = 45.153 − 16
 \Rightarrow 135 = 29.153 (LHS ≠ RHS)

Option-3 \Rightarrow Using the combination +, \div , -, =, ×.

- After substituting the signs in the equation, \Rightarrow 135 + 15 ÷ 3 2 = 13 × 16
- By using the BODMAS rule to solve the equation,

 \Rightarrow 135 + 5 - 2 = 13 × 16 \Rightarrow 135 + 5 - 2 = 208 \Rightarrow 140 - 2 = 208 \Rightarrow 138 = 208 (LHS≠ RHS)

Option 4 \Rightarrow Using the combination \div , ×, +, -, =.

• After substituting the signs in the equation, $\Rightarrow 135 \div 15 \times 3 + 2 - 13 = 16$

• By using the BODMAS rule to solve the equation,

$$\Rightarrow$$
9 × 3 + 2 - 13 = 16
 \Rightarrow 27 + 2 - 13 = 16
 \Rightarrow 29 - 13 = 16 \Rightarrow 16 = 16 (LHS = RHS)

Therefore, the answer will be \div , ×, +, -, =.

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8. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation: 11 * 15 * 78 * 6 * 18 * 160

a. +, ×, -, ÷, = b. ×, +, ÷, -, = c. ×, +, -, ÷, = d. +, ×, ÷, -, =

Ans: b. ×, +, ÷, -, =

Explanation:

- Interchange the signs and numbers of the equation ⇒ 11 x 15 + 78 ÷ 6 -18 = 160.
- By using the BODMAS rule to solve the equation,

⇒165+13 - 18=160 ⇒160=160

Therefore, the answer will be $x, +, \div, -, = .$



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9. Which two signs should be interchanged to make the given equation correct?

588 ÷ 28 × 32 + 72 - 160 = 760

- a. and +
- b. \div and -
- c. + and ×
- d. ÷ and +

Ans: a. – and + Explanation:

- Interchange the signs and numbers of the equation ⇒ 588 ÷ 28 × 32 72 + 160 = 760
- By using the BODMAS rule to solve the equation,

⇒
$$588 \div 28 \times 32 - 72 + 160 = 760$$

⇒ $21 \times 32 - 72 + 160 = 760$
⇒ $672 - 72 + 160 = 760$
⇒ $600 + 160 = 760$
⇒ $760 = 760$

Therefore, the answer will be – and + .



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10. Which two numbers and two signs should be interchanged in the following equation to make it correct ? $14 + 16 - 14 \times 9 \div 4 = 61$

- a. 16 and 14, + and ×
- b. 16 and 9, + and -
- c. 14 and 4, and ÷
- d. 14 and 9, + and ×

Ans: b. 16 and 9, + and -Explanation:

- Interchange the signs and numbers of the equation \Rightarrow 14 9 + 14 x 16 \div 4 =61
- By using the BODMAS rule to solve the equation,

⇒
$$14 - 9 + 14 \times 16 \div 4 = 61$$

⇒ $14 - 9 + 14 \times 4 = 61$
⇒ $14 - 9 + 56 = 61$
⇒ $70 - 9 = 61$
⇒ $61 = 61$

Therefore, the answer will be 16 and 9, + and -.



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11. Which two signs and numbers need to be interchanged to make the following equation correct? $(31 \times 3) - (27 \times 4) + (81 \div 9) = 126$

- a. 27 and 81, + and -
- b. 31 and 27, + and -
- c. 3 and 4, ÷ and +
- d. 27 and 9, + and -

Ans: d. 27 and 9, + and – Explanation:

- Interchange the signs and numbers of the equation ⇒ (31 × 3) + (9 × 4) (81 ÷ 27) = 126.
- By using the BODMAS rule to solve the equation,

⇒
$$(31 \times 3) + (9 \times 4) - (81 \div 27) = 126.$$

⇒ $(93) + (36) - (3) = 126$
⇒ $129 - 3 = 126$
⇒ $126 = 126$

Therefore, the answer will be 27 and 9, + and -.



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- 12) What is the approximate value of $(23.04)^2 \times 46.12 \div 1.99 + 128.78$?
 - a. 12876
 - b. 17290
 - c. 11002
 - d. 12300

Ans: d.12300 Explanation:

- The approximate value of the equation $\Rightarrow (23)^2 \times 46 \div 2 + 129$.
- By using the BODMAS rule to solve the equation,

$$\Rightarrow (23)^2 \times 46 \div 2 + 129$$

$$\Rightarrow (23)^2 \times 23 + 129$$

$$\Rightarrow (529) \times 23 + 129$$

$$\Rightarrow 12167 + 129$$

$$\Rightarrow 12167 + 129$$

$$\Rightarrow 12296 (approximate) \Rightarrow Nearest value \Rightarrow 12300$$

Therefore, the answer will be 12300.